

CONTENTS OF VOLUME 5

Number 1

Healing of Physal Fracture after Fixation with Biodegradable Self-Reinforced Polyglycolic Acid Pins. An Experimental Study on Growing Rabbits	1
ANTERO MÄKELÄ, SEPPO VAINIONPÄÄ, KIMMO VIHTONEN, MATTI MERO, JUHA LAIHO, PERTTI TÖRMÄLÄ & PENTTI ROKKANEN (Finland)	
New Arterial Prostheses by Filament Winding	13
B. GERSHON, G. MAROM & D. COHN (Israel)	
A Comparative Study of Porcelain Repair Materials	29
S. K. SIDHU (Singapore) & N. J. CAPP (UK)	
Morphological Changes of Poly(ethylene terephthalate) on Multiple Steam Sterilization	43
PRABHA D. NAIR (India)	
pH Studies in Modern Dental Alginates	47
R. D. BAGNALL, C. M. DAVIES, J. FOLEY & J. F. McCORD (UK)	
Performance of Retrieved Kuntscher Intramedullary Rods: Improved Corrosion Resistance with Contemporary Material Design	53
STEPHEN D. COOK, MARK R. BRINKER, RONALD C. ANDERSON, ROBERT J. TOMLINSON & JAMES C. BUTLER (USA)	
SEM Study of Surface Alterations of Bioactive Glasses and Glass–Ceramics in a Bony Implantation Bed	73
A. BOYDE, E. MACCONNACHIE, C. MULLER-MAI & U. GROSS (UK)	
Calendar of Events	89

Numbers 2–4

Special Issue: EMRS Interfaces in Biomaterials Sciences

Editorial	95
A Review: Secondary Ion Mass Spectrometry (SIMS) of Polymeric Biomaterials	97
MARTYN C. DAVIES & RICHARD A. P. LYNN (UK)	

Characterisation and Conversion Study into Natural Living Bone of Calcium Phosphate Bioceramics by Solid State NMR Spectroscopy	115
J. L. MIQUEL, L. FACCHINI, A. P. LEGRAND, X. MARCHANDISE, P. LECOUFFE, M. CHANAVAZ, M. DONAZZAN, C. REY (France) & J. LEMAITRE (Switzerland)	
Characterization of Bioacceptable Carbon Materials	127
R. MAGRI, C. MARIANI & G. OTTAVIANI (Italy)	
Fluorine Microanalysis in Teeth	139
L. TORRISI, G. FOTI & S. U. CAMPISANO (Italy)	
The Characterization of Plasma-Modified Polydimethylsiloxane Interfaces with Media of Different Surface Energy	147
M. MORRA, E. OCCHIELLO, F. GARBASSI, M. MAESTRI, R. BIANCHI & A. ZONTA (Italy)	
The Quantification of the Muscular Tissue Reaction to Implanted Biomaterials	157
M. THERIN (France)	
Aluminium Release as a New Factor in the Estimation of Alumina Bioceramic Implants	167
MALGORZATA LEWANDOWSKA-SZUMIEL & JANUSZ KOMENDER (Poland)	
Microstructure of Interface Regions and Mechanical Properties of Ti/Al ₂ O ₃ and Ti-Alloy/Al ₂ O ₃ Joints for Dental Implants	177
B. GIBBESCH, G. ELSSNER & G. PETZOW (FRG)	
A Multidisciplinary Approach to the Problem of Tissue and Microbial Adhesion to Metallic Implant Material	191
X. CLIVAZ, R. EMCH, P. DESCOUTS, P. VAUDAUX, D. LEW, M. DELMI & H. VASEY (Switzerland)	
Is Osseointegration a Requirement for Success in Implant Dentistry?	201
S. SZMUKLER-MONCLER & J. H. DUBRUILLE (France)	
Calcium Phosphate and Polymer Interfaces in Orthopaedic Cement	209
V. DELPECH & A. LEBUGLE (France)	
Mechanical and Chemical Bonding of Artificial Joints	217
H. OONISHI (Japan)	
Artificial Dental Root Made of Natural Calcium Carbonate (Bioracine)	235
S. CAMPRASSE, G. CAMPRASSE, M. POUZOL & E. LOPEZ (France)	
Biological Behaviour of Cellulosic Materials after Bone Implantation: Preliminary Results	251
D. CHAUVEAUX, C. BARBIE, X. BARTHE, C. BAQUEY & J. POUSTIS (France)	
Experimental Glueing of Injured Spleen by Collagen Glue	259
G. GIEBEL, M. RIMPLER, H.-A. SCHOON (FRG) & L. SANDOR (Hungary)	
Intra-oral Air Mercury Vapor Released From Dental Amalgam Before and After Restorative Procedures: A Preliminary Study	265
Y. HAÏKEL, A. JAEGER, F. LIVARDJANI & C. ALLEMANN (France)	

Contents of Volume 5

341

Opto-thermal In-Vivo Monitoring of Structural Breakdown of an Emulsion Sunscreen on Skin	271
R. E. IMHOF, C. J. WHITTERS & D. J. S. BIRCH (UK)	
Toxicological Aspects of Synthetic Tissue Adhesives	279
J. LEUSCHNER, G. GIEBEL, A. LAUBERT, H. GUENAY & M. RIMPLER (FRG)	
Dynamic Processes at the Liquid/Solid Interface in the Albumin/Apatite System	285
M. J. MURA, S. BEHR, E. F. BRES & J. C. VOEGEL (France)	
Corrosion Protection of Metal Implants by Hard Biocompatible Ceramic Coatings Deposited by Radio-Frequency Sputtering	297
C. SELLA, J. C. MARTIN, J. LECOEUR, J. P. BELLIER, M. F. HARMAND, A. NAJI, J. P. DAVIDAS & A. LE CHANU (France)	
Corrosion of Surgical Implants	309
M. TRAISNEL, D. LE MAGUER, H. F. HILDEBRAND & A. IOST (France)	
From a Marketing Perspective: Where are the Future Market Opportunities in Biomaterials?	319
KATHLEEN MATTOX (USA)	
Conference Reports	325
Book Review	328
Announcements	331
Calendar of Events	332

